## INTERNATIONAL SEARCH REPORT

International Application No PCT/JP92/00639

		sternational Application No PCI/	
I. CLASS	IFICATION OF SUBJECT MATTER (if several classificat	tion symbols apply, indicate atli	
	to International Patent Classification (IPC) or to both Nationa	Classification and IPC	
Int.	C1 <sup>5</sup> B21B13/14		
II. FIELDS	S SEARCHED Minimum Documentati	on Searched 7	
	Class	suffication Symbols	
Classification	on System Clas	surrection Symbols	
IPO	B21B13/00-13/04, 13/14	L	
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Jits Koka	suyo Shinan Koho ai Jitsuyo Shinan Koho	1926 - 1991 1971 - 1991	
III. DOCL	MENTS CONSIDERED TO BE RELEVANT		
Category *	II III I I I I I I I I I I I I I I I I	riste, of the relevant passages 12	Relevant to Claim No. 13
Y	JP, A, 58-187207 (SMS Schlo	pemann-Siemag AG.)	, 1-12
Y	November 1, 1983 (01. 11. 8 Lines 4 to 17, upper left of & EP, A1, 91540 & US, A, 45 & DE, A1, 3213496	83), column, page 5	
Y	JP, A, 62-282717 (Kawasaki Industries, Ltd.), December 8, 1987 (08. 12. Line 11, upper right column line 5, lower right column	87), n to	1-12
Y	(Family: none)  JP, A, 59-56905 (Kawasaki April 2, 1984 (02. 04. 84) Lines 4 to 11, lower left	Steel Corp.),	1-12
A	(Family: none)  JP, A, 54-13442 (Hitachi, January 31, 1979 (31. 01. Line 19, loer left column line 11, lower right colum (Family: none)	79), to	1-12
• \$	t categories of cited documents: 10	'T" later document published after th	e international filing date or
"A" doc cor "E" ear filir "L" doc wh citi	nument defining the general state of the art which is not nadered to be of particular relevance tier document but published on or after the international grate cument which may throw doubts on priority claim(s) or ich is cited to establish the publication date of another ablon or other special reason (as specified)	priority date and not in conflict wit understand the principle or theory document of particular relevance; be considered novel or cannot triventive step document of particular relevance; be considered to involve an invent	y underlying the invention the claimed invention cannot be considered to involve an the claimed invention cannot tive step when the document their such documents, such
oth	cument published prior to the international filing date but	"&" document member of the same pa	atent family
late	er than the priority date claimed		
	TIFICATION	Date of Mailing of this International S	earch Report
	ne Actual Completion of the International Search ust 7, 1992 (07. 08. 92)	August 18, 1992	
Internation	onal Searching Authority	Signature of Authorized Officer	
Jap	anese Patent Office		

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## INTERNATIONAL SEARCH REPORT

Interceptional Application No PC1/EP2004/013623

A. CLASS IPC 7	BERNATION OF SUBJECT MATTER B21B13/14 B21B13/02		
According t	to International Patent Classification (IPC) or to both national cla	ssification and IPC	
	SEARCHED		
Minimum d	locumentation searched (classification system followed by class B21B	ification symbols)	
Documenta	ation searched other than minimum documentation to the extent	that such documents are inclu	ided in the fields searched
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Flectronic o	data base consulted during the international search (name of da	to been and where predical	
	iternal, PAJ	id base and, where practical,	search terms used)
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	TECHNOLOGIES OF THE NEW VOLD S		
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	vol. 92, no. 6, 1 June 1995 (1	995-06-01),	
	pages 795-803, XP000527745		
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X Furti	her documents are listed in the continuation of box C.	χ Patent family π	nembers are listed in annex.
° Special ca	ategories of cited documents:	· "T" later document publ	ished after the international filing date
	ent defining the general state of the art which is not	or priority date and	isted after the international filling date if not in conflict with the application but if the principle or theory underlying the
"E" earlier o	dered to be of particular relevance document but published on or after the international	invention	lar relevance; the claimed invention
filing d	date ant which may throw doubts on priority claim(s) or	cannot be consider	nar relevance; the claimed invention red novel or cannot be considered to e slep when the document is taken alone
which	is cited to establish the publication date of another n or other special reason (as specified)	"Y" document of particu	lar relevance; the claimed invention
"O" docume	ent referring to an oral disclosure, use, exhibition or means	document is combi	red to involve an inventive step when the ined with one or more other such docu- ination being obvious to a person skilled
'P' docume	ent published prior to the international filing date but han the priority date claimed	in the art.	· · · · · · · · · · · · · · · · · · ·
	actual completion of the international search	<del></del>	of the same patent family ne international search report
2	March 2005	10/03/20	005
Name and n	nailing address of the ISA European Palent Office, P.B. 5818 Patentlaan 2	Authorized officer	
	NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fay: (+31–70) 340–3016	Forcini	ti M

## INTERNATIONAL SEARCH REPORT

Intermional Application No
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A	EP 0 555 882 A (HITACHI, LTD) 18 August 1993 (1993-08-18) abstract; figure 1	1,5
Α	DE 100 37 004 A1 (SMS DEMAG AG) 28 February 2002 (2002-02-28) the whole document	1-9
A	EP 0 543 014 A (KAWASAKI STEEL CORPORATION; KAWASAKI STEEL CO; JFE STEEL CORPORATION) 26 May 1993 (1993-05-26) figures 1-56	1,5